

Prevention of Glycoside Fission by
Means of Cyclodextrin. Part IV. Inclu-
sion Compounds, by B. Cramer.
FRENCH, per, Justus Liebig's Annalen
der Chemie, Vol 579, 1953, pp. 17-22.
NTC 69-11755-07C

Sci-Chem
July 69

386,636

Metalloc-Organic Compounds. XIX. Reaction of the
Aluminum-Hydrogen Combination With Olefins, by
Carl Ziegler, 56 pp.

GERMAN, per, *Justus Liebigs Annalen der Chemie*,
Vol XXXXIX, 1954, pp 91-121.

SLA Tr 877/1955

Sci - Phys

50, 126

Jul 57

The Ring Size and Activity of Cyclic Cis Olefins,
9 pp, by K. Ziegler, H. Froitzheim.

GERMAN, per, Justus Liebigs Ann Chem., Vol DLXXXIX,
1954, pp 157-162.

SLA. 2899

Sci - Chemistry
Mar 58

59,772

Polymethine Dyes. I. On Cyanomethines, by M. Strell,
W. B. Braunbruck, F. Fuhler, Wolfgang and O. Huber.

GERMAN, per, Justus Liebigs Ann Chem, Vol DLXXXVII,
No 3, 1954, pp 177-194.

SLA 57-2937

Sci

Aug 8 58

71,161

Polymethine Dyes. III. On Malocyanines, by H.
Strehl, (B.) W. Braunbruck, and L. Reithmayr, 24
pp.

GERMAN, per, Justus Liebigs Ann Chem, Vol DLXXXVII,
No 3, 1954, pp 195-206.

SLA 57-2939

Sci

Aug 58

71,162

Alkaloids of Calabash-Curare, VII, by T.
Wickland, H. Morris. XMAS

GERMAN, pur, Justus Liebig's Annalen der
Chemie, Vol DLXXX, 1954, pp 204-209.

CSIRO

Sci. ~ Chem.
Jun 62

199, 5-83

Ziegler, Karl, Gellert, Hans-Georg, Martin, Heinz,
Nagel, Konrad, and Schneider, Josef.
REACTION OF THE ALUMINUM-HYDROGEN COM-
BINATION WITH OLEFINS. Pt. 19 of Metallocorganic
Compounds. [1963] 56p (figs omitted)
Order from K-H \$36.00 K-H-3215

Trans. of [Justus] Liebigs Annalen der Chemie (West
Germany) 1934, v. 389, no. 2, p. 91-121.

DESCRIPTORS: Metallocorganic compounds, *Aluminum
compounds, *Hydrogen, *Ethylenes, Chemical reaction

63-22845

- I. Ziegler, K.
- II. Gellert, H.-G.
- III. Martin, H.
- IV. Nagel, K.
- V. Schneider, J.
- VI. Title: Metallocorganic...
- VII. K-H-3215
- VIII. Kreager-Hooker Science
Library Associates,
Detroit, Mich.

(Chemistry--Organic, TT, v. 10, no. 12)

Office of Technical Services

Wittig, Georg and Schloeder, Hans.
THE ADDITION OF TRITYL-SODIUM TO BUTADIENE
IN THE PRESENCE OF TRIPHENYL-BORON. [1963]
24p 24refs
Order from SLA \$2.60

TT-64-14707

Trans. of [Justus Liebig's] Annalen der Chemie (West Germany) 1955, v. 592, p. 38-53.

TT-64-14707

I. Wittig, G.
II. Schloeder, H.

(Chemistry--Organic, TT, v. II, no. 12)

Office of Technical Services

The Addition of a Maleic Anhydride to Styrene
Diene Synthesis and Substituting Additions in
the Styrene Series, Pts. 1-5, by
K. Alder, R. Schmitz-Josten.
GERMAN, per, Justus Liebigs Annalen der Chemie,
Vol DXCV, No 1, pp 1-37, 1955.
SLA TR 64-18476

Sci
Apr 67 322,270

<p>Ziegler, Karl and Holzkamp, Erhard. ORGANOMETALLIC COMPOUNDS. XXII. MAGNESIUM-ALUMINUM-ORGANIC COMPLEX COMPOUNDS (Metallorganische Verbindungen. XXII. Magnesium-Aluminums-Organische Komplexverbindungen). [1960] [7] p. 12 refs. Order from SLA m:\$1.80, ph:\$1.80 61-10487</p> <p>Trans. of <i>Jahrsbericht Anfalten der Chemie</i> (West Germany) 1957, v. 60(5/66/73) p. 93-97.</p> <p>A successful attempt to make magnesium-aluminum organic complex compounds is reported. This work is an outgrowth of research on aluminum organic compounds and on alkali-aluminum-tetraalkyl complexes. Preparation and properties of "complete" and "partial" complexes, $Mg(AIR_4)_2$ and $RMe_3(AIR_4)$, are described. Results show that the organic magnesium-aluminum compounds form less stable complexes than the corresponding alkali-aluminum compounds. However, interesting changes in solubility relationships (Chemistry--Organic, TT, v. 5, no. 8) (over)</p>	<p>61-10487</p> <p>1. Metalorganic compounds-- Synthesis 2. Aluminum compounds (Organic)--Synthesis 3. Magnesium compounds (Organic)--Synthesis 4. Complex compounds-- Synthesis I. Ziegler, K. II. Holzkamp, E. III. Title: Magnesium-...</p> <p>151430</p> <p>Office of Technical Services</p>
--	--

On the Manner of Reaction of Unsaturated Compounds
Toward Tritiylsodium in Presence of Complex-Formations
III, by Georg Wittig, Dietmar Hittenberg, 23 pp.

GERMAN, per, Justus Liebigs Annal der Chemic,
Vol DCLII, No 13, 1957, pp 1-13.

SIA 59-15942

Sci
Dec 59
Vol 2, No 5

103 783

Asinger, Friedrich, Thiel, Max, and
Kaltwasser, Hans
THE SIMULTANEOUS REACTION OF SULFUR AND
AMMONIA ON CYCLOHEXANONE. 8p Brefs.
Order from SLA \$1.10 TT-64-16887

Trans. of [Justus] Liebigs Annalen [der Chemie] (West
Germany) 1937, v. 606 [no. 1/3] p. 67-74.

(Chemistry--Organic, TT, v. 12, no. 5)

TT-64-16887

I. Asinger, F.
II. Thiel, M.
III. Kaltwasser, H.

Office of Technical Services

<p>Klaces, Friedrich and Zange, Egon. ON CARBONAMIDIUM SALTS. A NEW CLASS OF CARBOXYLIC ACID DERIVATIVES. Rept. no. 10 on Onium Salts; part of dissertation by E. Zange, Munich U., 1957. [1960] [16]p. (diags., formulae, tables omitted) 21 refs. Order from SLA m\$2.40, ph\$3.30 61-10306</p> <p>Trans. of [Justus Liebig's] Annalen der Chemie (West Germany) 1957, v. 607 [no. 1/3] p. 35-45.</p> <p>The preparation and the characteristics of a few repre- sentatives of the still unknown class of acyl-ammonium salts (carbonamidiium salts) are described. The com- pounds $[R' - CO - NR_3]^{\pm} [SbCl_6]^{-}$ as a result of the mesomery conditions in the series of carboxylic acid derivatives, display an unusually high acetylating ca- pacity. (Author)</p> <p>(Chemistry--Organic, TT, v. 5, no. 5)</p>	<p>61-10306</p> <p>1. Onium compounds-- Synthesis 2. Amines--Chemical reactions 3. Antimony compounds (Organic)--Chemical reactions 4. Carboxylic acids-- Chemical reactions</p> <p>I. Klages, F. II. Zange, E. III. Title: Onium... IV. Munich U. (West Germany)</p> <p>146, 991</p> <p>Office of Technical Services</p>
---	---

The Hexosamine Content of Cartilage in Dependence
on Age, by Richard Kuhn, Hermann Josef Leppelmann
9 p.

GERMAN, par, Justus Liebigs Ann. Chem., 1957,
Vol DCVII, pp 202-206.

SLA 59-16556

Sci
Apr 60
Vol III, No 3

111 578

Vogel, Ettmann.
SMALL CARBON RINGS. [1962] [76]p. 216 refs.
Order from SLA 47.60 62-16694

Trans. of Juttas Liebigs Annalen der Chemie
(West Germany) 1958, v. 615, p. 1-14.

DESCRIPTORS: *Carbo compounds, Monocyclic
compounds, Cyclobutanes, Cyclobutenes, Butanes,
Butenes, Propenes, Synthesis.

(Chemistry)--Organic, TT, v. 8, no. 8)

62-16694

E. Vogel, E.

Office of Technical Services

Amino Acid Derivatives Containing Silican by
L. Birkofcr and A. Ritter.

Einzelart
~~TREKKE~~, per, Justus Liebig's Annalen Der Chemie,
Vol DCXII, No 1/2, 1958, pp 22-33

CSIRO Tr 4150

Oct. 62

Investigations on the Carbones. III.
Reaction of Methylenes with Ethers, by
V. Frenzen, L. Filmstecher, Op.
GERMAN, per, Justus Liebigs Annalen
der Chemie, Vol 617, 1958, pp 1-10.
SEA TIT-65-30190

333, 817

Sci
Jul 67

The Determination of Divalent Titanium in the
Presence of Trivalent Titanium, by N. Martin,
J. Stedefeder, 7 pp.

GERMAN, per, Justus Liebigs Ann der Chemie, Vol DCEVIII,
1958, pp 17-23.

AT&T-88L31G

Sci

Jun 60

118,346

Boron Derivatives. I. Preparation of Boron Triallyls and Their Reactions With Olefins,
by Roland Khetar, 21 pp.

GERMAN, per, Justus Liebigs Annalen der
Chemie, Vol DCLXVIII, No 1-3, 1958, pp 31-43.

SIA 60-14310

Sci
Feb 62
Vol III, No 11

184, 876

Preparation and Reactivity of Cyclic Disulphides
with Varying Ring Sizes, by A. Schöberl, H.

Grafje.

GERMANY, per, Justus Liebig's Annln Chem, Vol
614, pp. 66-63, 1958.

CSIRO/9174

Sci-Chem
July 69

389,586

(10)

Rossmüller, Gerd and Stamm, Hellmuth.
ADDITION COMPOUNDS OF ZIRCONIUM TETRA-CHLORIDE AND DIMETHYL ETHER AND THEIR PYROLYSIS (Additionsverbindungen aus Zirkoniumtetrachlorid und Dimethyläther und deren Pyrolyse). [1960]. 122 p., 9 refs.

Order from SLA in \$2.40, plus \$3.30 61-10533

Transl. of [Justus Liebigs Annalen der Chemie] (West Germany) 1968, v. 618, p. 59-67.

ZrCl₄ forms a dimerate with CH₃OCH₃; its infrared spectrum is discussed. During its pyrolysis, two processes are superimposed: 1) dissociation with formation of the monomer; the corresponding heat of dissociation is determined from the vapor pressure curve as 10.5 k. cal/mole; 2) decomposition to the monomer or condensed chlorine containing methyl zirconate, which occurs with formation of methyl chloride. The mechanism of these reactions can be studied via the infrared spectrum. (Author)

(Chemistry--Organic, 14, v. 5, no. 8)

61-10533

1. Methyl ethers--Chemical reactions
2. Zirconium chlorides--Chemical reactions
3. Zirconium compounds (Organic)--Decomposition
4. Title: Addition compounds

G. Rossmüller

H. Stamm

Office of Technical Services

A Simple Synthesis of Substituted Azulenes, by
K. Hafner and H. Kaiser, 19 p.
GERMAN, per, Justus Leibigs Annalen der Chemie, Vol
618, 1958, pp 140-152.
IICR-8695

Sci-Chem
Jun 66

303,700

Photosensitized Synthesis of Tertiary Allyl Hydroperoxides From Symmetrical Tetrasubstituted Ethylenes,
by G. O. Schenck, K. H. Schulte-Elte, 12 pp.

GERMANY, per, Justus Liebigs Chem Ann, Vol DCLVIII,
1958, pp 185-193.

CIA/FDD MX-625
NOT RELEASABLE TO FOREIGN NATIONALS

Sci - Chem
Aug 59

USIB INTERNAL USE ONLY

93, 217

Hoch and Haaf. SYNTHESIS OF BRANCHED CARBOXYLIC ACIDS BY THE FORMIC ACID METHOD. [1961] 13p. (refs. formulae omitted). Order from SLA \$1.00	62-10456	I. Hoch II. Haaf
Trans. of [Justus Liebigs] Ann[alen der Chemie] (West Germany) 1959, v. 618, no. 1/3, p. 251-256.	62-10456	
Portions of this report will not reproduce well.		
DESCRIPTORS: *Carboxylic acids, Acids, Synthesis, Ethylenes, Carbon compounds, Monoxides, Water, *Formic acids, Alcohols, Chlorides, Alkyl radicals, Esters, Cyclopentenes, Cyclopentanols, Pentenes, Pantanols, Cyclohexenes, Cyclohexanols, Chemical reactions, Monocyclic compounds.		
(Chemistry--Organic, TT, v. 7, no. 8)		Office of Technical Services

Organic Metallic Compounds: Aluminum Trialkyls and
Dialkyl Aluminum Hydrides as Reducing Agents, by
Karl Ziegler, Kurt Schneider, Josef Schneider,
15 p.

GERMAN, per, ⁵Johann Liebigs Annalen der Chemie,
1959, Vol XXXIII, No 1/3, pp 9-16.

SLA 60-10132

Sci
Apr 60
Vol III, No 3

112, 097

The Steric Course of the Addition of Butadiene
to the Double Bond of the Bicyclo-[1,2,2]-
Heptene System, by Kurt Alder, Joachim Monch,
et al., 14 pp.

GERMAN, per, Justus Liebigs Annalen der Chemie,
Vol DCCXVIII, No 1-3, 1959, pp 47-58.

(1) - 14521

Sci
Feb 62
Vol III, No 11

184, 886

Aminolysis of 1-Acyl-3, 5-Dimethylpyrazoles,
by W. Ried, B. Schleimer.

GERMAN, per, Justus Liebigs Annalen der Chemie,
Vol DCXXVI, No 1-3, 1959, pp 98-105.

CSIRO 5050

Sci
Dec 62

Organophosphorus Compounds. Part 18.
Phosphimimines from Phosphine Dihalides
and Primary Amines, by L. Hoerner,
H. Oediger
FRHNCH, per, Justus Liebig's Annalen
der Chemie, Vol 627, 1959, pp. 142-62
NTE 69-10679-07B

Sci-Chem
July 69

386,692

61-20449

Ziegler, Karl, Gellert, Hans-Georg and others.
ALUMINUM TRIALKYLS AND DIALKYL ALUMINUM
HYDRIDES FROM OLEFINS, HYDROGEN, AND
ALUMINUM. Pt. 26 of Metallocorganic Compounds.
[1961] 26p. 35 refs.

Order from SLA \$2.60 61-20449
SLA 477-64-3 5970 P(6,17) K-H-16624-11
Trans. of [Justus Liebig's] Annalen der Chemie (West
Germany) 1960, v. 629 [no. 1/3] p. 1-13.

DESCRIPTORS: Metalorganic compounds, *Aluminum
compounds, *Hydrides, *Alkyl radicals, Synthesis,
*Ethylenes, *Hydrogen, *Aluminum, Chemical
reactions.

(Chemistry--Organic. TT, v. 7, no. 1)

I. Ziegler, K.
II. Gellert, H.-G.
III. Title: Metallocorganic...

Office of Technical Services

Ziegler, Karl, Marvin, Heinz, and Krupp, Felix.
ALUMINUM TRIALKYL AND DIALKYL ALUMINUM
HYDRIDES FROM ISOBUTYL ALUMINUM COM-
POUNDS. Pt. 27 of Metallocorganic Compounds. [1961]
8p
Order from K-H \$8.00 K-H-10024-12

Trans. of [Justus L. Liebig's Annalen der Chemie (West Germany) 1960, v. 629 (no. 1/3) p. 14-19.
Another trans. is available from SLA \$1.10 as
61-20450 [1961] 8p

DESCRIPTORS: Metalorganic compounds, *Aluminum
compounds, *Hydrides, *Alkyl radicals, *Butyl radi-
cals, Synthesis (Chemistry), Chemical reactions.

(Chemistry--Organic, TT, v. 10, no. 12)

63-22847

- I. Title: Alkyaluminum
hydride
- II. Ziegler, K.
- III. Marvin, H.
- IV. Title: Metallocorganic...
- V. K-H-10024-12
- VI. Kreage-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

Ziegler, K[arl] and Gellert, H[ans]-G[eorge].
DETERMINATION OF THE "ACTIVITY" OF
ORGANOALUMINUM COMPOUNDS. Pt. 28 of Metal-
loorganic Compounds. [1961] 5p. 5 refs.
Order from SLA \$1.10 61-20451

Trans. of [Justus Liebigs] Annalen der Chemie (West
Germany) 1960, v. 629, no. 1/3, p. 20-22.

DESCRIPTORS: Metalorganic compounds, *Aluminum
compounds, *Alkyl radicals, Determination.

By "active" aluminorganic compounds we understand
Al trialkyls and Al dialkylhydrides. It is possible to
determine them analytically, beside the inactive types
of the R₂AlOR kind (which are formed, e.g., through
autoxidation), by a simple titration method as only the
active compounds are capable of fixing 1 mole of
ammonia. (Author) (See also 61-20450)
(Chemistry--Organic, TT, v. 7, no. 1)

61-20451

I. Ziegler, K.
II. Gellert, H.-G.
III. Title: Metallocorganic...

Office of Technical Services

Neumann, W. P.
THE QUANTITATIVE DETERMINATION OF DI-
ALKYL AL HYDRIDES. Pt. 29 of Metallocorganic
Compounds. [1961] 16p. 14 refs.
Order from SLA \$1.60

61-20452

Trans. of [Justus Liebig's] Annalen der Chemie (West
Germany) [1960] v. 629, no. 1/3, p. 23-33.

DESCRIPTORS: Metalorganic compounds, *Aluminum
compounds, *Hydrides, *Alkyl radicals,
Quantitative analysis.

Two methods have been developed for the determination
of Al-H bonds in aluminum organic compounds; a
gas-volumetric method for routine analysis in the
laboratory or in the plant and a spectrophotometric
method of greater precision and sensitivity. (Author)
(See also 61-20451)
(Chemistry--Organic, TT, v. 7, no. 1)

61-20452

I. Neumann, W. P.
II. Title: Metallocorganic...

Office of Technical Services

Ziegler, Karl, Koster, Roland and others. NEW COMPLEX COMPOUNDS OF ALUMINUM ALKYLS. Pt. 30 of Metallocorganic Compounds. [1961] 29p. 13 refs. Order from SLA \$2.60 K-H-10024-7 Trans. of [Justus Liebigs] Annalen der Chemie (West Germany) 1960, v. 529, no. 1/3, p. 33-49.	61-20453 I. Ziegler, K. II. Koster, R. III. Title: Metallocorganic... See also 61-20452 AT&T OBJECTS (15P)	(Chemistry--Organic, TT, v. 7, no. 1)
---	---	---------------------------------------

Office of Technical Services

61-20454

Koster, Roland and Kroll, Wolf-Rainer.
POTASSIUM CHLORIDE COMPLEXES OF DIALKYL
ALUMINUM CHLORIDE AND THEIR CLEAVAGE.
Pt. 31 of Metallocorganic Compounds. [1961] 4p.

4 refs.

Order from SLA \$1.10

61-20454

Trans. of [Justus] Liebig's Ann[alen der] Chem[ie]
(West Germany) 1960, v. 629 [no. 1/3] p. 50-52.

DESCRIPTORS: Metalorganic compounds, Complex
compounds, *Aluminum compounds, *Potassium
compounds, *Chlorides, *Alkyl radicals, Chemical
reactions.

See also 61-20453

I. Koster, R.
II. Kroll, W.-R.
III. Title: Metallocorganic...

Office of Technical Services

(Chemistry--Organic, TT, v. 7, no. 1)

Ziegler, Karl, Kroll, Wolf-Rainer and others.
DISSOCIATION AND EXCHANGE REACTIONS OF
THE ALUMINUM TRIALKYLS. Pt. 32 of Metal-
loorganic Compounds. [1961] 57p. 31 refs.

Order from SLA \$5.60 61-20455
K-NF51000 16-14-10024-4

Trans. of [Justus Liebigs] Ann[alen] der Chemie
(West Germany) 1960, v. 629 [no. 1/3] p. 53-89.

DESCRIPTORS: Metalorganic compounds, *Aluminum
compounds, *Alkyl radicals, Exchange reactions,
Disassociation.

See also 61-20454

(Chemistry--Organic, TT, v. 7, no. 1)

61-20455

- I. Ziegler, K.
II. Kroll, W.-R.
III. Title: Metalloorganic...

Office of Technical Services

Koester, Roland and Bruno, Gunter.
EXCHANGE OF HYDROCARBON RADICALS RE-
TWEEN ORGANIC ALUMINUM AND BORON COM-
POUNDS. Pt. 33 of Metalloorganic Compounds;
Rept. 3 of Boron Compounds. [1961] 23p. 35 refs.
Order from SLA \$2.60 61-20456

Trans. of [Jahres] Liebigs Ann[als des] Chem[ie]
(West Germany) 1960, v. 629 [no. 1/3] p. 89-103.

DESCRIPTORS: Metalorganic compounds, *Aluminum
compounds, *Boron compounds, *Alkyl radicals,
*Hydrocarbons, Exchange reactions.

See also 61-20455

(Chemistry--Organic, TT, v. 7, no. 1)

61-20456

I. Koester, R.
II. Bruno, G.
III. Title: Metalloorganic...
IV. Title: Boron...

Office of Technical Services

DESCRIPTION	DETAILS
<p>Hoffmann, Ernst G. ADIABATIC CRYOMETRY AND ITS APPLICATION TO ORGANOALUMINUM COMPOUNDS. [1961] 29p. 28 refs. Order from SLA \$2.60</p>	<p>61-20457</p>
<p>Trans. of [Justus] Liebigs Ann[alen der] Chemie (West Germany) 1960, v. 629 [no. 1/3] p. 104-121.</p>	<p>1. Title: Cryometer 2. Title: Cryoscopy 1. Hoffmann, E. G.</p>
<p>DESCRIPTORS: "Cryogenics, Thermometers, Measurement, "Low temperature research, Freezing, Liquids, Determination, Molecular weight, Aluminum compounds, Metalorganic compounds, Organic solvents, Chemical equilibrium, Valence, Exchange reactions.</p>	
<p>(Chemistry--Organic, TT, v. 7, no. 4)</p>	<p>Office of Technical Services</p>

Ziegler, Karl, Gellert, Hans-Georg and others.
REACTIONS OF THE Al-C BOND WITH OLEFINS.
Pt. 34 of Metallocorganic Compounds. [1961] 74p.
50 refs.

Order from SLA \$7.60

Trans. of [Justus Liebigs] Annalen der Chemie (West Germany) 1960, v. 629, no. 1-3, p. 121-166.

DESCRIPTORS: Metallocorganic compounds, *Aluminum compounds, *Alkyl radicals, *Ethylenes, Chemical reactions, Displacement reactions.

See also 61-20456

61-20458
I. Ziegler, K.
II. Gellert, H.-G.
III. Title: Metallocorganic...

Office of Technical Services

(Chemistry--Organic, TT, v. 7, no. 1)

Ziegler, Karl and Kroll, Wolf-Rainer.
DISPLACEMENT AND GROWTH REACTIONS IN
DIALKYL AL COMPOUNDS OF THE R₂AlX TYPE.
Pt. 35 of Metallocorganic Compounds. [1961] 8p.

4 refs.

Order from SLA \$1.10 61-20459

Trans. of [Lucius Liebigs] Annalen der Chemie
(West Germany) [1961] v. 629, no. 1/3, p. 167-171.

DESCRIPTORS: Metalorganic compounds, *Aluminum
compounds, *Alkyl radicals, Displacement reactions.

See also 61-20458

(Chemistry--Organic, TT, v. 7, no. 1)

61-20459

I. Ziegler, K.
II. Kroll, W.-R.
III. Title: Metallocorganic...

Office of Technical Services

<p>Ziegler, Karl, Gellert, Hans-Georg and others. SYNTHESIS OF STRAIGHT-CHAIN α-OLEFINS FROM ETHYLENE. Pt. 36 of Metallocorganic Com- pounds. [1961] 42p. 24 refs. Order from SLA \$4.00 61-20460 <i>K-H 4/2.00</i> <i>K-H 70024/</i> Trans. of [Justus Liebigs] Annalen der Chemie (West Germany) 1960, v. 629, no. 1/3, p. 172-198.</p> <p>DESCRIPTORS: Metalorganic compounds, *Butenes, Synthesis, *Ethylenes, *Aluminum compounds, *Alkyl radicals, Chemical reactions, Displacement reactions, Catalysts, Catalysis.</p> <p>See also 60-20459</p> <p>(Chemistry--Organic, TT, v. 7, no. 1)</p>	<p>61-20460</p> <p>I. Ziegler, K. II. Gellert, H.-G. III. Title: Metallocorganic...</p> <p>Office of Technical Services</p>
--	---

Weslau, Hermann.

THE PROBLEM OF CHAIN-LENGTH DISTRIBUTION
IN THE STEP-WISE METALLOORGANIC SYNTHES-
SIS. [1961] 14p. 10 refs.
Order from SLA \$1.60

61-20504

Trans. of [Justus Liebigs] Annalen der Chemie (West Germany) 1960, v. 629, no. 1/3, p. 198-206.

DESCRIPTORS: *Metalorganic compounds, *Ethylenes,
*Aluminum compounds, *Alkyl radicals, Synthesis,
Chain reactions, Displacement reactions,
Statistical distributions.

It is shown how one must calculate the distribution of chain lengths for the "growth reaction" as per K. Ziegler and coworkers; and, namely(1) in the limiting case of the pure growth (or in the case of the ideal two-step α -olefin synthesis with growth and displacement (Chemistry--Organic, TT, v. 7, no. 2) (over)

61-20504

I. Weslau, H.

Office of Technical Services

Pfohl, W[erner].

TRINEOPENTYL ALUMINUM. Pt. 37 of Metalloc-
organic Compounds. [1961] 4p. 5 refs.
Order from SLA \$1.10 61-20461

Trans. of [Justus Liebigs] Annalen der Chemie.
(West Germany) 1960, v. 629, no. 1/3, p. 207-209.

DESCRIPTORS: Metalorganic compounds, *Aluminum
compounds, *Methyl radicals, *Pentyl radicals,
*Alkyl radicals, *Butenes, Chemical reactions,
Synthesis.

See also 61-20460

61-20461

I. Pfohl, W.
II. Title: Metalloorganic...

(Chemistry--Organic, II, v. 7, no. 1)

Office of Technical Services

Ziegler, Karl, Nagel, Konrad and Pfohl, Werner.
PYROLYSIS OF Al TRIALKYLS. Pt. 38 of Metal-
loorganic Compounds. [1961] 19p. 5 refs.
Order from SLA \$1.60

61-20462
K-H 700 24-7

Trans. of [Justus Liebig's] Annalen der Chemie (West
Germany) 1960, v. 629, no. 1/3, p. 210-221.

61-20462

I. Ziegler, K.
II. Nagel, K.
III. Pfohl, W.
IV. Title: Metallocorganic...

DESCRIPTORS: Metalorganic compounds, *Aluminum
compounds, *Alkyl radicals, Pyrolysis.

See also 60-20461

(Chemistry--Organic, TT, v. 7, no. 1)

Office of Technical Services

Wilke, Gunther and Muller, Herbert.
REACTIONS OF ORGANOALUMINUM COMPOUNDS
WITH ACETYLENE. Pt. 39 of Metallocorganic Com-
pounds. [1961] 25p. 18 refs.
Order from SLA \$2.60

61-20468

Trans. of [Justus] Liebigs Ann[alen der Chemie]
(West Germany) 1960, v. 629 [no. 1/3] p. 222-240.

DESCRIPTORS: Metalorganic compounds, *Aluminum
compounds, *Alkyl radicals, *Acetylenes, Chemical
reactions.

See also 61-20462

61-20468

I. Wilke, G.
II. Muller, H.
III. Title: Metallocorganic ...

(Chemistry--Organic, TT, v. 7, no. 1)

Office of Technical Services

Ziegler, Karl, Krupp, Felix, and Zosel, Kurt.
SYNTHESIS OF ALCOHOLS FROM ORGANO-
ALUMINUM COMPOUNDS. Pt. 40 of Metallocorganic
Compounds. [1961] 15p. 24 refs.

Order from SLA \$1.00

61-20480

Trans. of [Julius Liebigs] Annalen der Chemie (West
Germany) 1960, v. 629, no. 1-3, p. 241-250.

DESCRIPTORS: Metallocorganic compounds, *Aluminum
compounds, *Alkyl radicals, Oxidation, *Alcohols,
Synthesis.

See also 61-20468

61-20480

- I . Ziegler, K.
- II . Krupp, F.
- III . Zosel, K.
- IV . Title: Metallocorganic...

(Chemistry--Organic, TT, v. 7, no. 1)

Office of Technical Services

Ziegler, Karl, Krupp, Felix and others.
REACTIONS OF THE Al TRIALKYLS WITH CARBON DIOXIDE AND SULFUR DIOXIDE. Pt. 41 of
Metalloorganic Compounds. [1961] 10p. 8 refs.
Order from SLA \$1.10

61-20463
Trans. of [Justus Liebigs] Annalen der Chemie (West Germany) [1960] v. 629, no. 1/3, p. 251-256.

DESCRIPTORS: *Aluminum compounds, *Alkyl radicals, *Carbon dioxide, *Sulfur compounds, *Dioxides, Chemical reactions, *Carboxylic acids, *Sulfonic acids, Acids, Production, Metalorganic compounds.

See also 61-20480

(Chemistry--Organic, TT, v. 7, no. 1)

61-20463

I. Ziegler, K.
II. Krupp, P.
III. Title: Metallocorganic...

Office of Technical Services

Kurtz, P.
1-CYANO-2-ALKENES. IV. THE FORMATION OF
NITRILES. [1960] 35p.
Order from ATS \$42.45

ATS-29M47G

Trans. of [Justus Liebig's] Annalen der Chemie]
(West Germany) 1960, v. 691, no. 1/3, p. 21-36.

151565

61-12783

- I. Cyanides--Synthesis
- II. Kurtz, P.
- III. ATS-29M47G
- IV. Associated Technical Services, Inc., East Orange, N. J.
- IV. Title: Formation ...

Office of Technical Services

(Chemistry--Organic, TT, v. 5, no. 8)

Meerwein, H., Bodenbender, K. and others.
TERTIAL CARBONIUM SALTS. [1961] 18p.
Order from ATS \$21.85 ATS-10N49G

Trans. of [Justus Liebigs] Annalen der Chemie
(West Germany) 1960, v. 632 [no. 1/3] p. 33-52.

(Chemistry--Organic, TT, v. 5, no. 10)

61-12969

1. Oxidum compounds--
Synthesis
2. Salts--Synthesis
1. Meerwein, H.
- II. Bodenbender, K.
- III. ATS-10N49G
- IV. Associated Technical
Services, Inc., East
Orange, N. J.

Office of Technical Services

Concerning a Sodium-Uranium (V) Fluoride,
 Na_3UF_8 , by Walter Riedorff, Hans Leutner,
15³ pp.

GERMAN, per, Jahresbericht Ausgaben der
Chemie, Vol. III DCCXXXI, 1960, pp 1-7.
909398P

ABC Tr-5205

Sci - Chem
Sep 62

212, 699

Meerwein, H., Hederich, V. and others.
INTERMOLECULAR ANION TRANSFERS IN ORGANIC
REACTIONS. [1961] 18p.
Order from ATS \$27.80

ATS-34N51G

'Trans. of Justus Liebigs Ann[alen der] Chem[ie]
(West Germany) 1960, v. 635, 20 Sep, p. 1-21.

DESCRIPTORS: *Ions, *Chemical reactions, Organic
compounds.

61-22634

- I. Title: Organic reactions,
- II. Meerwein, H.
- III. Hederich, V.
- IV. Associated Technical Services, Inc., East Orange, N. J.

155172

Office of Technical Services

(Chemistry-Physical, TT, v. 6, no. 8)

Kropf, H.
PHTHALOCYANINE CATALYSIS. I. KINETICS AND
MECHANISM OF THE AUTOXIDATION OF CUMENE
IN THE PRESENCE OF PHTHALOCYANINES. (1961)
19p.
Order from ATS \$23.45

ATS-80N50G

Trans. of Justus Liebigs Ann[alen der] Chem[ie]
(West Germany) 1960, v. 637, p. 73-93.

DESCRIPTORS: *Phtalocyanines, *Catalysis, Oxida-
tion, *Cumenes, Reaction kinetics

(Chemistry--Physical, TT, v. 6, no. 4)

61-22906

- I. Kropf, H.
II. Title: Kinetics ...
III. ATS-80N50G
IV. Associated Technical
Services, Inc., East
Orange, N. J.

16614

Office of Technical Services

Kropf, H.
PHthalocyanine Catalysis. II. CATALYSIS OF
THE AUTOXIDATION OF BENZENE HYDROCARBONS
BY COPPER PHthalocyanine. [1961] 16p.
Order from ATS \$17.45 ATS-81NS03

Trans. of Jahresbericht über die Chemie
(West Germany) 1960, v. 637, p. 93-110.

DESCRIPTORS: *Phthalocyanines, *Catalysis, Oxida-
tion, *Benzenes, Hydrocarbons, *Copper compounds.

See also ATS-80NS03

(Chemistry--Physical, TT, v. 6, no. 4)

61-22907

I. Kropf, H.
II. Title: Catalysis ...
III. ATS-81NS03
IV. Associated Technical
Services, Inc., East
Orange, N. J.

177614

Office of Technical Services

Kropf, H.
BITHALOCYANINE CATALYSIS. III. DECOMPOSITION
OF CUMENE HYDROPEROXIDE IN THE PRESENCE
OF THE BITHALOCYANINES OF COBALT AND
COPPER. [1961] 7p.
Order from ATS \$7.10

ATS-82N50G

Trans. of *Jahres-Liebig's-Annalen-der-Chemie* (West
Germany) 1960, v. 637, p. 111-118.

DESCRIPTORS: *Bithalocyanines, *Catalysis, Decom-
position, *Cumenes, Hydroperoxides, Cobalt com-
pounds, Copper compounds.

See also ATS-81N50G

(Chemistry--Physical, TT, v. 6, no. 4)

61-22908

I. Kropf, H.
II. Title: Decomposition ...
III. ATS-82N50G
IV. Associated Technical
Services, Inc., East
Orange, N. J.

16110

Office of Technical Services

Heterocyclic Compounds in Metabolism. Part 18, Biosynthesis of Riboflavin. Conversion of Guanine-(5-¹⁴C) by Candida Species under the Influence of Trace Elements Zinc and Iron, by F. Korte.

GERMAN, per, Justus Leibig's Annalen der Chemie, vol. 648, 1961, pp. 131-139.

NtC 70-16957-06A

Ziegler, Karl and Steudel, Otto-Walter.
ELECTROLYSIS OF TETRAALKYLBORANATES IN
AQUEOUS SOLUTION. Pt. 42 of Metalorganic
Compounds. [1964] 11p
Order from K-H \$6.60

K-H-11927

Trans. of Jurius Liebigs Annalen der Chemie (West
Germany) [1962] v. 632, p. 1-7.

See also TT-61-20463

TT-64-12940

- I. Ziegler, K.
- II. Steudel, O.-W.
- III. Title: Metalorganic...
- IV. K-H-11927
- V. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

(Chemistry--Physical, TT, v. 12, no. 1)

Office of Technical Services

1,3,-Dipolar Additions, 2. Synthesis of 1, 2, 4-Triazoles from Nitrilimines and Nitriles, by R. Hrusgen,
GERMAN, per, Justus Liebigs Annln Chem, Vol 653,
1962, pp 105-113.
GB 357/T. 703

Sci/Chem
July 69

385-991

Hoberg, Helmut.
TO THE KNOWLEDGE OF 10-CALLED CARBENE
REACTIONS, I. [1963] 16p. 12 refs.
Order from SLA \$1.00

63-16601

Trans. of [Ausgewählte Aufsätze der Chemie (West Germany) 1962, v. 6(6), p. 1-9.]

63-16601

I. Hoberg, H.

DISCUSSION: Chemical reactions, *Carbenes,
*Methyl radicals, *Aluminum compounds, *Halides,
*Methyl radicals, *Alto radicals, Ethers, *Metal-
organic compounds.

Dialkyl aluminum halides react with diazonium salts with the formation of halo-
geno methyl aluminum diallyls. These ethers are formed in ether. Methyl-hydrido-
diethyl-alum. can be separated as a solid; it
decomposes at ca. -100°. Compounds of this type react
(in general) very easily already with alcohols and
aldehydes, especially below their decomposition temper-
(Cf. A. Trippel, Angew. TT, v. 10, no. 7) (over)

Office of Technical Service

Hoberg, Heinz.
TO THE KNOWLEDGE OF SO-CALLED CARBENE
REACTIONS, II. [1963] 5p. 2 refs.
Order from SLA \$1.10

63-16600

Trans. of [Justus] Liebigs Annalen der Chemie (West
Germany) 1963, v. 686, p. 15-17.

DESCRIPTORS: Chemical reactions, *Carbenes,
*Alkyl radicals, *Zinc compounds, *Halides, *Methyl
radicals, *Azo radicals, Ethers, *Metalorganic
compounds.

It is shown that the reaction products of diazomethane
and zinc halides behave like the analogous aluminum
compounds and do not represent a new type of compound
(Author) (See also 63-16601)

(Chemistry--Organic, TT, v. 10, no. 7)

63-16600

I. Hoberg, H.

Office of Technical Services

Hydroxymethylphosphines, Hydroxymethyl-phosphonium Salts and Chloromethylphosphonium Salts, by H. Hellmann, J. Bader.
GERMAN, per, Justus Liebig's Annalen der Chemie, Vol 659, 1962, pp 49-63.
NTC 69-11353-07C

Sci-Chem
July 69

387,031

Horner, Leopold, Reuter, Heinrich, and
Herrmann, Edith,
INFLUENCE OF THE STRUCTURE OF ORGANIC SUB-
STANCES ON THE POISONING OF RANEY NICKEL
HYDROGENATION CATALYSTS. [1963] [10]p. (figs.
tables refs. omitted).
Available from SLA on loan

63-16529

Trans. of Justus Liebigs Annalen der Chemie (West
Germany) 1962, v. 660, p. 1-23.

DESCRIPTORS: *Catalysts, Hydrogenation, *Nickel,
*Organic compounds, Cyclohexenes, Chemisorption,
Crystal structure, Nitriles, Sensitivity.

63-16529

- I. Title: Raney nickel
- II. Horner, L.
- III. Reuter, H.
- IV. Herrmann, E.

(Chemistry--Organic, TT, v. 10, no. 8)

Office of Technical Services

Pyridinium N-Phenolbetaines and Their Use
for the Characterization of the Polarity of
Solvents, by K. Dimroth.
EUROPEAN, per, Justus Liebig's Annalen der
Chemie, Vol 661, 1963, pp 1-37.
NTC-71-11512-07C

Feb 72

JPR 5 C50: 16556
16556 5 Oct 67

Demographic of the Student Movement in Spain,
by Andres Garrido

Spanish, per. Juventud y Libertad, New York,
vol II, June 4; PP 26-32

Spanish
Re Special type 6; translator's draft
Doc plus com copy.
Please return source.

S FF

Fault Finding on PET Cables with Cable Fault
Detectors, by E. Grevelund, A. Piaschke.
GERMAN, rpt, Jydsk Telefon Tjenstlige
Efterretninger, April 1961, pp. 17-22
NLL Ref: 9022.81 (2510)

Sci-Elect
July 69

388,351

Basic Problems of the Modern Theory of Plane
Deformation, by A.I. Tselikov.
GERMAN, per, KBS Mitteilungen, Vol 4, Special
Issue, 1960, pp 15-36.
*BISI 7390

2377

Sci/Mat
July 69

Energy Distribution in Three Rotor Blades of
Different Width, by U. Domm
EUROPEAN, per, KSB Technische Berichte, No 6,
1963, pp 12-21
NTC 71-15554-20K

feb 72

SF-3182
1 July 65

The underground services in the Netherlands by J.
de Jongen et al. pp (p6-7) thru (6-9)

Earthbulletin 6, Pijnwijk, N., Sep 1964

Dutch 205 words

Special Typing "Translator" draft plus one

doc - do not mutilate,

SF-3182
JPRS

Manual of Procedure for Care of the Dead.

FINNISH, Kaatunciden Huollon Ohjesaanto,
Incl 2 to R-106-61. (TABLE OF CONTENTS ONLY)

*ACSI I-0539
ID 2170934

Sci - Med

19 Dec 61

Kabelkraze. 1956. by I. Y. Barat, V. I. Pavlovskiy,

Translated from the Russian edition.

DSIR 621.877
Lending Lib Unit
G. 11312

(DC-575C)

Afghan Postal Rates, 16 pp.

PERSIAN, document, Kabul, pp 1-14.

JPRS 8367

Near & Middle East

Econ

156,549

Jun 61

1:10:4 (UCRL-Trans-10622) 5 EQUATION OF STATE FOR
LIQUID AMMONIA. 6 Planck, R. 10 Translated for Univ. of
California Lawrence Livermore Lab., Livermore, from 15 Kaelte-
technik 12: No. 10, 282-3(1960). 17204p. 24 Dep. NTIS.

26 physics; translations 2720

28 MN-34 29 P NSA

The Surface Tension of Refrigerants, Refrigeration
Oils and Their Mixtures, by H. Steinle.
GERMAN, per, Kaaltetechnik, Vol 12, No 11, 1960,
pp 334-339.
NTC 71-13873-11G

Feb 72

Designation of Refrigerants, by H. Steinle.
GERMAN, per, Kaeltetechnik, Vol 12, No 12,
1960, p 392.
NTC 71-13872-11E

Feb 72

Azeotropic and Other Frigen Mixtures as
Refrigerants, by A. Fuderer
GERMAN, per, Kaeltetechnik, Vol 15, 1963,
pp 235-239
NTC 71-15102-11G

mar '72

Problems of Large-Scale "Frigen" (R)
Refrigeration Plant, by H. L. von Cube
GERMAN, per, Kaeltetechnik, Vol 16, No 3,
1964, pp 76-83
NTC 71-15103-13A

mar 72

East German Militia Training, by Roland Fieback, 6 pp.
OFFICIAL USE ONLY

GERMAN, per, Der Kämpfer, No 5, 1961, p 4.

JPRS 4726

E.
ESur - Germany

Mil

Jul 61

160,427

Research on Supersonic Air Intakes,
by P. Carriere, J. Leynaert,
FRANCE, per, Kahrbuch 1959 dec WGL, 1959,
pp 80-89.
*Dept Navy Tr 4093/APL T-1231

Sci - Aero
Apr 65

278,222

Wever, Franz and Lange, Heinrich.

TRANSFORMATION KINETICS OF AUSTENITE.
I. MAGNETIC INVESTIGATIONS OF AUSTENITE
DISINTEGRATION. [1961] [46 p. (28 figs. omitted)]
15 refs.

Order from SLA \$4.60

61-14956

Trans. of Kaiser-Wilhelm-[Institut] für Eisenforschung, Düsseldorf; Münchener (Germany) 1932,
v.-14, p.-7f-83.

DESCRIPTORS: *Austenite, *Transformations, Phase
transitions, Steel, Magnetism.

61-14956

I. Wever, F.
II. Lange, H.
III. Title: Magnetic...

184023

Office of Technical Services

(Unannounced)

Bardenbeuer, F. and Geller, W. THE BASIC PRINCIPLES OF THE DESULPHURIZATION OF PIG IRON AND STEEL. [Nov 47] 26p. (4 figs. omitted) 42 refs. Order from SLA m\$2.70, ph\$4.80	60-18855 1. Sulfur - Separation 2. Iron - Impurities 3. Steel - Impurities 4. Bardenbeuer, F. 5. Geller, W.
Trans. of Kaiser-Wilhelm-Institut für Eisenforschung, Düsseldorf. Mitteilungen (Germany) 1934, v. 16, no. 7, p. 77-91.	47
Office of Technical Services	
(Unannounced)	

<p>Krüger, Erichrich and Olsen, Wilhelm THE ACTION OF CARBON AS A REDUCING AGENT IN THE REACTIONS OF THE STEEL-MAKING PROC- ESSES WITH ACID SLAGS [Aug 47] 45p 10 refs Order from S.A. \$3.30 ph\$7.80 60-18856 Trans. of Kaiser-Wilhelm-Institut für Eisenforschung, Düsseldorf, Mettingen (Germany) 1935, v. 17. no. 47 p. 39-61.</p>	<p>60-18856</p> <ul style="list-style-type: none">1. Steel - Production2. Carbon - Metallurgical effects3. Slags - ApplicationsI. Krüger, EII. Olsen, W <p>Office of Technical Services</p>
--	---

<p>Dickens, Peter and Thanheiser, Gustav. A SIMPLIFIED METHOD FOR THE CO-DETERMINATION OF MANGANESE, CHROMIUM AND VANADIUM. Rept. no. 125 of the Chemical Committee of the Verein Deutscher Eisenhüttenleute [1961] 14p. 6 refs. Order from SLA \$1.60</p> <p>Trans. of Kaiser-Wilhelm-Institut für Eisenforschung [Düsseldorf]. Mitteilungen (Germany) 1938, v. 20, no. 3, p. 35-41; Archiv für das Eisenhüttenwesen (Germany) 1938, v. 11, May, p. 583-588.</p> <p>DESCRIPTORS: *Manganese, *Chromium, *Vanadium, Determination, Oxidation, Electrodes, Metallurgy, *Steel, Tungsten.</p> <p>(Unannounced)</p>	<p>61-18489</p> <p>I . Dickens, P. II . Thanheiser, G. III . Title: Verein...</p> <p>184063</p> <p>Office of Technical Services</p>
--	---

Bardenheuer, Peter and Bleckmann, Richard.
THE PRIMARY CRYSTALLIZATION OF STEEL
UNDERCOOLING ABILITY AND NUCLEUS FORMA-
TION IN THE LIQUID CONDITION. [1959] [32]p.
19 refs.
Order from SLA \$3.60

62-14406

62-14406
1. Title: Undercooling
I . Bardenheuer, P.
II . Bleckmann, R.

Trans. of [Kaiser-Wilhelm-Institut für Eisenforschung,
Düsseldorf-Krefeld-Lingen (Germany) 1939] v. 21,
no. 13 [p. 201-212].

DESCRIPTORS: *Steel, *Crystallization, Cooling,
Melting, Nucleation, *Phase studies, Nuclei, Thermo-
dynamics, Liquid metals.

(Metallurgy--Ferrous Metals, TT, v. 10, no. 2)

Office of Technical Services

Lueg, Werner and Schultze, Fritz.
INFLUENCE OF FORWARD TENSION AND BACK-
WARD TENSION IN THE COLD-ROLLING OF STRIP
STEEL IN A TWELVE-HIGH COLD-ROLLING MILL.
[1961] [21]p. (8 tables 2 figs. omitted) 7 refs.
Order from SLA \$2.60

61-18557

I. Lueg, W.
II. Schultze, F.

Trans. of Kaiser-Wilhelm-Institut für Eisenforschung,
Dusseldorf, "Mitteilungen (Germany) 1940 [v. 22]
No. 7; p. 93-108.

DESCRIPTORS: *Steel. Processing. Tensile properties.
*Rolling mills. Tests.

(Metallurgy--Ferrous Metals, TT, v. 7, no. 3)

Office of Technical Services

Pomp, Anton and Niebel, Georg.
THE LOSS OF STRENGTH WITH TIME DUE TO THE
ANNEALING OF COLD-ROLLED STEEL STRIP FOR
DEEP-DRAWING OPERATIONS. [1961] [15]p. (49 figs.
omitted) 13 refs.

Order from SLA \$1.60

61-18858

Trans. of Kaiser-Wilhelm-Institut für Eisenforschung
[Dusseldorf]. Mitteilungen (Germany) 1940, v. 22,
no. 8, p. 109-119.

DESCRIPTORS: Drawing (Machine processing). Annealing.
Rolling mills. Steel. Mechanical properties.
Manufacturing methods.

(Metallurgy--Ferrous Metals. TT, v. 7, no. 3)

61-18858

I. Pomp, A.
II. Niebel, G.

Office of Technical Services

Eichinger, Anton and Lueg, Werner.
THE HEATING-UP OF WIRE AND DIE IN COLD-DRAWING. [1961] [20]p. 41 refs.
Order from SLA \$1.60

61-18508

Trans. of Kaiser-Wilhelm-Institut für Eisenforschung
[Düsseldorf]. Mitteilungen (Germany) 1941, v. 23,
no. 2, p. 21-30.

DESCRIPTORS: *Steel wire, *Dies, Heating,
Processing, Friction, Temperature, Test equipment.
Tests.

61-18508

I . Eichinger, A.
II . Lueg, W.

184076

Office of Technical Services

(Unannounced)

<p>Hempel, Max] and Krug, H[ermann]. INFLUENCE OF THE YIELD POINT ON THE FATIGUE STRENGTH OF STEEL., tr. by C. B. Lander. [Oct 49] [13]p. (3 figs. omitted) 23 refs. Order from N.I.A. m\$2.40, ph\$3.30 Trans. Kaiser-Wilhelm-Institut für Eisenforschung, Düsseldorf. Mitteilungen (Germany) 1942, v. 24, no. 7. p. 97-103 <i>142,786</i></p> <p>(Unclassified)</p>	<p>60-18857</p> <p>I. Steel--Fatigue I. Hempel, M. II. Krug, H</p> <p>60-18857</p> <p>Office of Technical Services</p>
--	--

"Olsen, Willy and Maetz, Helmut.
THE BEHAVIOR OF FLUORSPAR AND OF CALCIUM
PHOSPHATES IN RELATION TO THE FERROUS OX-
IDE IN THE MELT AND ITS METALLURGICAL SIG-
NIFICANCE. [1961] 97p. 84 refs.
Order from SLA \$8.00

61-18753

I. Olsen, W.
II. Maetz, H.

61-18753

Trans. of Kaiser-Wilhelm-Institut für Eisenforschung
[Düsseldorf]. Mitteilungen (Germany) 1941, v. 23,
no. 12, p. 195-245.

DESCRIPTORS: *Fluorspar, *Calcium compounds,
*Phosphates, Metallurgy, *Iron compounds, *Oxides,
Slags.

(Metallurgy, TT, v. 6, no. 10)

Office of Technical Services

<p>Olsen, W[ilhelm] and Wiemer, Hans IMMISCIBILITY PHENOMENA IN FERROUS OXIDE-SODIUM-PHOSPHATE SLAGS. Doctoral thesis of H. Wiemer, Bonn U. Faculty for Mathematics and Natural Sciences. [Aug 48] [84]p. (1 fig omitted) 44 pgs. Order from SLA m\$4.80, ph\$13.80</p> <p>Trans. of Kaiser-Wilhelm-Institut für Eisenforschung, Düsseldorf. Mitteilungen (Germany) 1942, v. 24, no. 13, p. 187-210.</p> <p style="text-align: center;"><i>142,828</i></p> <p>(Unannounced)</p>	<p>60-18858</p> <p>1. Slags--Chemical properties 2. Iron oxides--Chemical properties 3. Sodium phosphates-- Chemical properties I. Olsen, W II. Wiemer, H III. Bonn U. (West Germany)</p> <p style="text-align: center;">Office of Technical Services</p>	
---	---	--

<p>Poep, Anton and Puzicha, Wilhelm THE COILED ROLLING OF HIGH STRENGTH STRIP STEELS AND THEIR PROPERTIES, tr. by W. B. Jones [Apr 45] 39p. (18 figs. omitted) 56 refs Order from SI A m/s 3.00, ph\$6.30 60-18859 Trans. of Kaiser-Wilhelm-Institut für Eisenforschung, Düsseldorf. Mitteilungen (Germany) 1943, v. 26, no. 2 p. 13-36 <i>142,838</i></p>	<p>60-18859 1. Steel Processing 2. Sheet Processing 3. Thin Strip Steels I. Poep, A II. Puzicha, W.</p>	
--	---	--

Office of Technical Services

(Unclassified)

<p>Lueg, Werner and Pomp, Anton. TESTS TO DETERMINE AND PREDICT THE DRAWING FORCE IN THE BRIGHT-DRAWING OF STEEL. [Mar 47] 19p. 4 refs. Order from SLA m\$2.90, ph\$3.30</p> <p>Trans. of Kaiser-Wilhelm-Institut für Eisenforschung, Düsseldorf. Mitteilungen (Germany) 1944, v. 27, no. 4. p. 43-52.</p> <p>142,806</p>	<p>60-18860</p> <p>I. Steel--Processing 2. Title: Bright drawing I. Lueg, W. II. Pomp, A.</p> <p>Office of Technical Services</p> <p>(Unannounced)</p>
---	--

By Canoe Through the Mazura and Warmia, by
J. Kuran, S. Czajkowski, 158 pp.

POLISH, bk., Kajakiem Po Mazurach i Warmii,
1956, pp 12-22; 65-394.

ACSI H-9196
ID 2032350

EEur - Poland
Geog
11 Sep 61

166, 325

By Canoe Over the Waterways of Western
Pomerania, by Z. Wrzesniowski, 61 pp.

POLISH, bk., Kajakiem po Wodach Pomorza
Zachodniego, 1955.

ACSI H-9276
ID-2052f24

EEur - Poland

166,337

Geog

11 Sep 61

English Title Unknown, by Friedrich Czapek.
GERMAN, per, Katalog der durch Wissenschaftliche
Botanik, Vol 27, 1895, pp 243-339.
NASA TT F-12,638

Oct 69

The Calc-pans of the Ghanzi Veld, Siegfried Passarge,
53 pp.
GERMAN, bk, Die Kalahari, Chapt, 17, pp 304-327.
9696168
Amer Meteorol Soc
T-G-64-41

Sci - Es
Mar 65

275,072

Soldiers Calendar.

CZECH, manual, Kalendar na rok, 1955.

G-2, GSUSA G-4944

EEur - Czechoslovakia
Military -
CTS 73/Oct 1955

27,913

Autenrieth, H.

THE STABLE AND METASTABLE EQUILIBRIA OF THE QUINARY, NaCl-SATURATED SYSTEMS OF THE SALTS OF OCEANIC DEPOSITS, AND THEIR APPLICATION IN THE HARD SALT DISSOLUTION PROCESS [AND] RESULTS FROM THE EVALUATIONS OF THE STABLE AND METASTABLE EQUILIBRIA OF THE QUINARY, NaCl-SATURATED SYSTEMS OF THE OCEANIC SALT DEPOSITS: TABLES AND PHASE DIAGRAMS. [1963] [40p]
Order from SLA \$5.00

TT-63-14641

TT-63-14641

I. Autenrieth, H.
II. Title: Results ...

Partial trans. (tables and diagrams) of Kali und Steinsalz (West Germany) 1950, no. 7, pts. 1-2 and 1951, no. 14.

DESCRIPTORS: *Sodium compounds, *Chlorides, *Salts, Oceans, *Phase studies, *Tables, Data, Chemical equilibrium.

(Chemistry--Physical, TT, v. 11, no. 2)

Office of Technical Services